

Title (en)

3-dimensional visualization and quantification of histological sections

Title (de)

Dreidimensionale Visualisierung und Quantifizierung von histologischen Schnitten

Title (fr)

Visualisation et quantification tridimensionnelles de coupes histologiques

Publication

EP 1473672 A1 20041103 (EN)

Application

EP 03008877 A 20030429

Priority

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Abstract (en)

The present invention relates to a method for the 3D reconstruction and visualization of histological data, particularly for comparison with radiological data. According to the method, a radiological image of a biological or non-biological specimen is created, said specimen is cut into histological sections, photographic images are taken of all or a subset of said histological sections, the resulting images are registered in the horizontal plane (XY-plane), a virtual stack of the images is created along in the vertical direction (along the Z-axis), a virtual section of the same thickness, level and direction as represented by the radiological image is created, a 2-dimensional image of said virtual section is created, and said 2-dimensional image is compared with the radiological image. In preferred embodiments, the invention provides additional methods particularly suited for the processing of large specimen.

IPC 1-7

G06T 7/00; G06T 17/40

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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